Tyler McCarthy

Mccartty@mail.gvsu.edu Github.com/point01
616-264-0770 Linkedin.com/in/point01

Objectives

Seeking full time software development positions in San Francisco, especially those focusing on Android & iOS development, web development, security engineering, and virtual reality applications in Unity and Unreal engine

Employment

Edmodo - Security Engineering Intern   San Mateo, CA   May - Aug 2015

- Designed, built, tested and deployed to AWS - service that detects malware and analyzes text in hundreds of user –generated content submissions per minute in arbitrary file format
  using Python, Flask, Apache Tika, Docker
- Designed, built, tested and maintained a moving-window rate limiting service covering entire platform, improving considerably over previous PHP implementation
  using Python, Apache Thrift, Docker, Redis
- Tested, confirmed, corrected, and documented security holes in PHP backend code
- Built a tool to automatically detect & fix mixed content on Wordpress blog pages
- Light dev/ops work in Amazon Web Services

Grand Valley Surplus Store - Student IT Tech   Grand Rapids, MI   Jun - Sep 2014

- Managed FOG disk imaging server, ensured total data wipe and reimaging of hundreds of computers with Linux & Windows; directly aided customers at checkout and during sales

Voluntarism & Student Organizations

Computer Security Team - Grand Valley - Team Coordinator   2013 - 2014

- Organized meetings & team practice, researched and taught skills, set up practice network
- Team competed in 2014 Michigan Collegiate Cyber Defense Competition

Student Environmental Coalition - Grand Valley - Treasurer   Sep - Dec 2013

- Balanced budget; wrote and presented funding requests, helped organize service events
- Secured 100% funding for 20 student attendees to Powershift environmental conference

Center For Inquiry – Grand Valley - Vice President, Treasurer, Service Coordinator   2011 - 2013

- Helped coordinate and execute speech by Neil deGrasse Tyson at GVSU (4,000 attendees)

Skills & Experience

Programming Languages:
Strong: Python, Java, C, C#, BASH scripting
Some exposure: Ruby, Haskell, Common Lisp
Learning: C++, OpenGL & GLSL

Operating systems:
- Extensive Linux (Arch Linux, CentOS, Ubuntu)
- Windows 7, 8.1 & 10

Programs & Environments:
- Android Studio, Eclipse, Visual Studio
- Unity 5, Unreal Engine 4.5

B.S., Computer Science

Grand Valley State University Dec. 2015

Technologies :
- Apache Thrift, Apache Tika
- Docker, Amazon Web Services mgmt.
- Redis, SQLite, General SQL/DB concepts

System security :
- Software Firewall, secure network architecture
- Practical cryptograpy, IDS, honeypots, pentesting
- Server hardening experience, incl. database

Recent Projects

- Several Android demo projects available here   Github.com/point01/android-apps
- Square Wars game - GVSU capstone project in Unity   Github.com/point01/square-wars
- Atomic Games 9 hr. Hackathon - Othello game AI   Github.com/point01/atomic-othello